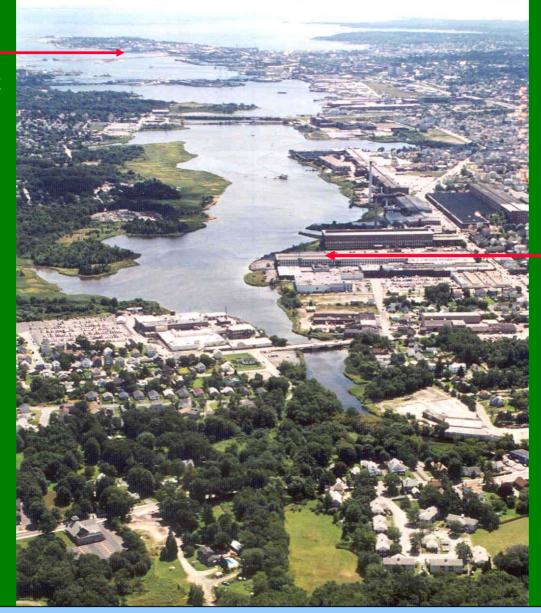
The New Bedford Harbor Superfund Site Cleanup Cornell-Dubilier I. Overview of the harbor cleanup II. The underwater capping pilot project III. Questions and answers Aerovox

The Cornell- Dubilier plant



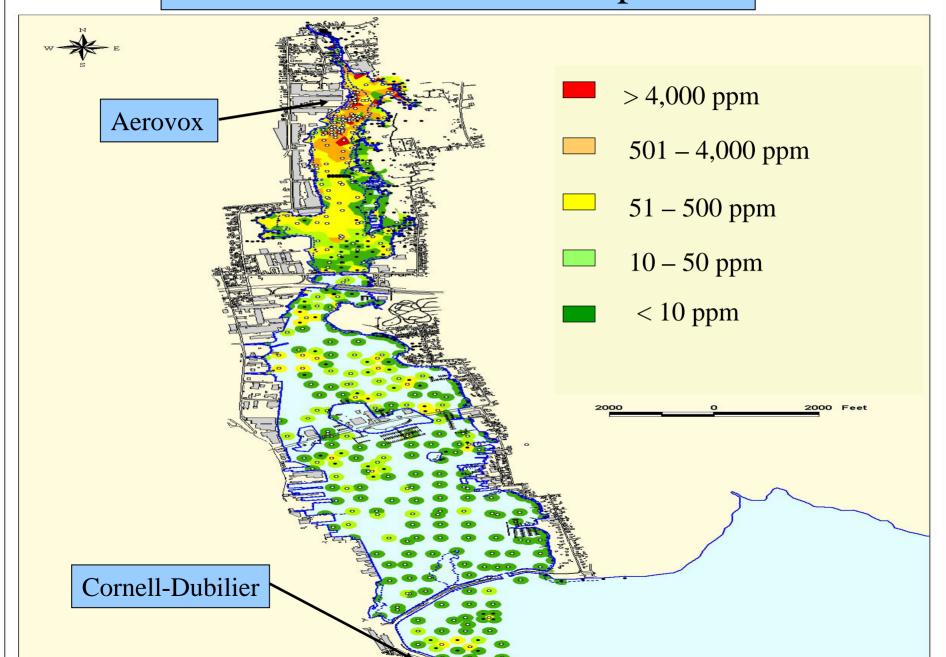
the abandoned Aerovox plant

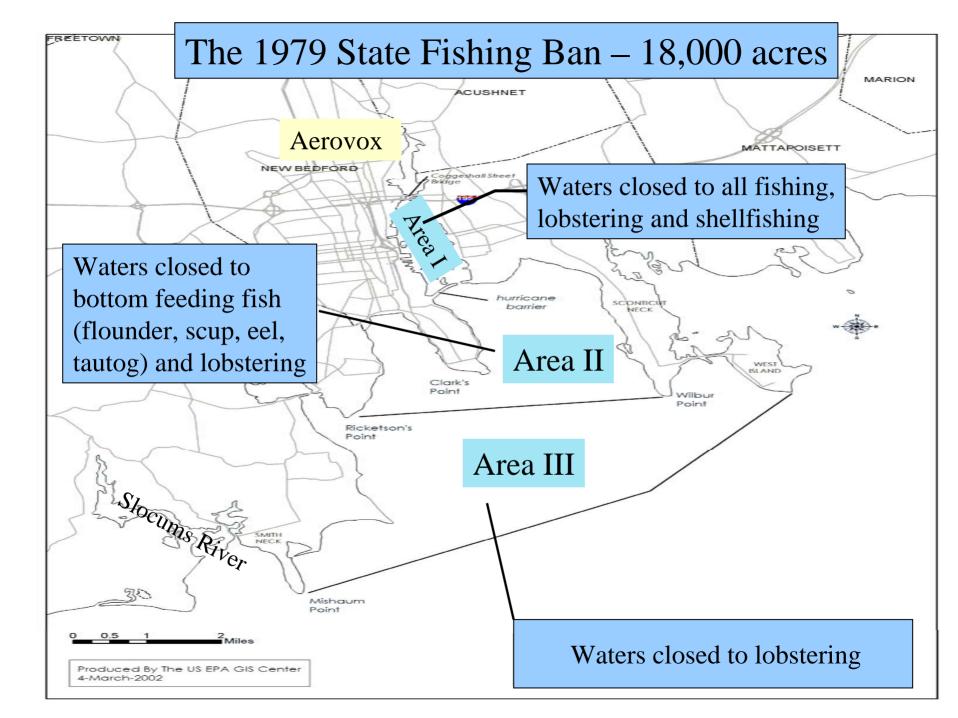
Another view of the harbor - looking south



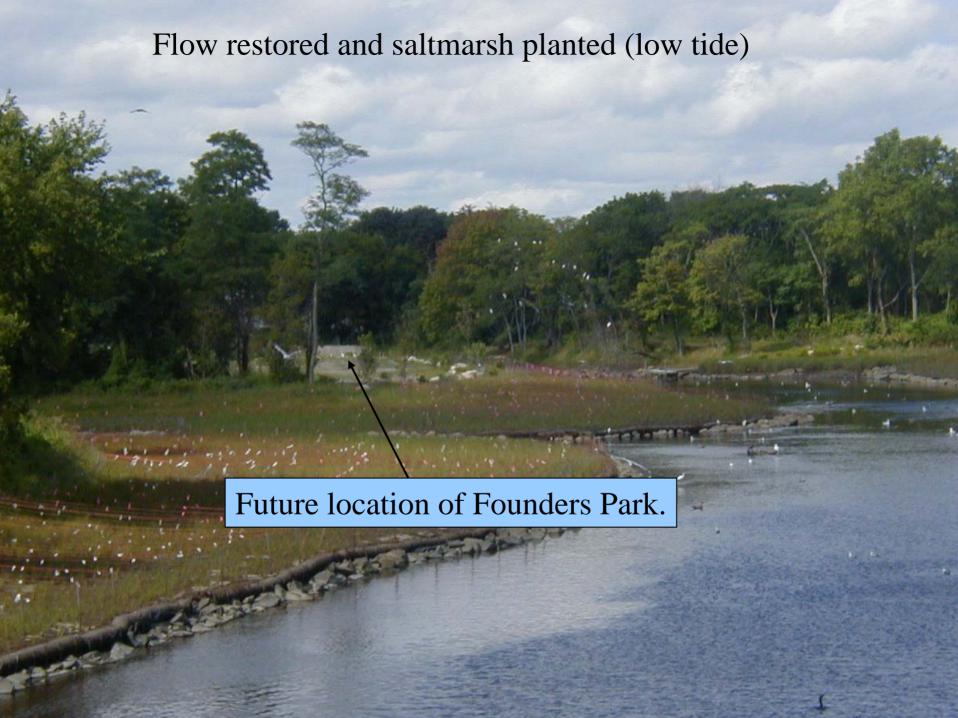
PCBs in sediment – top foot





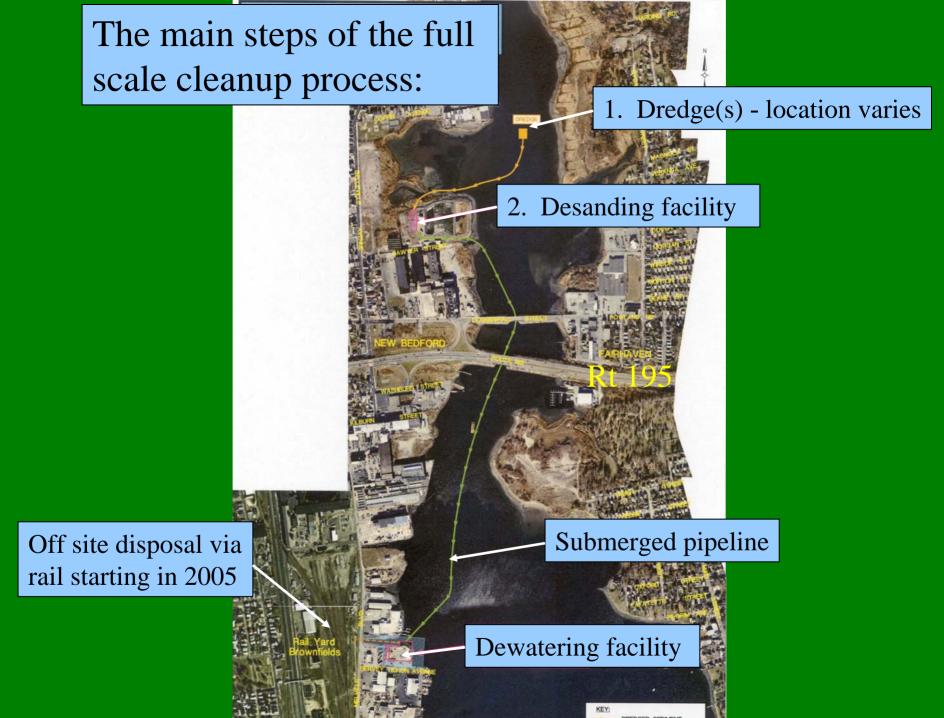


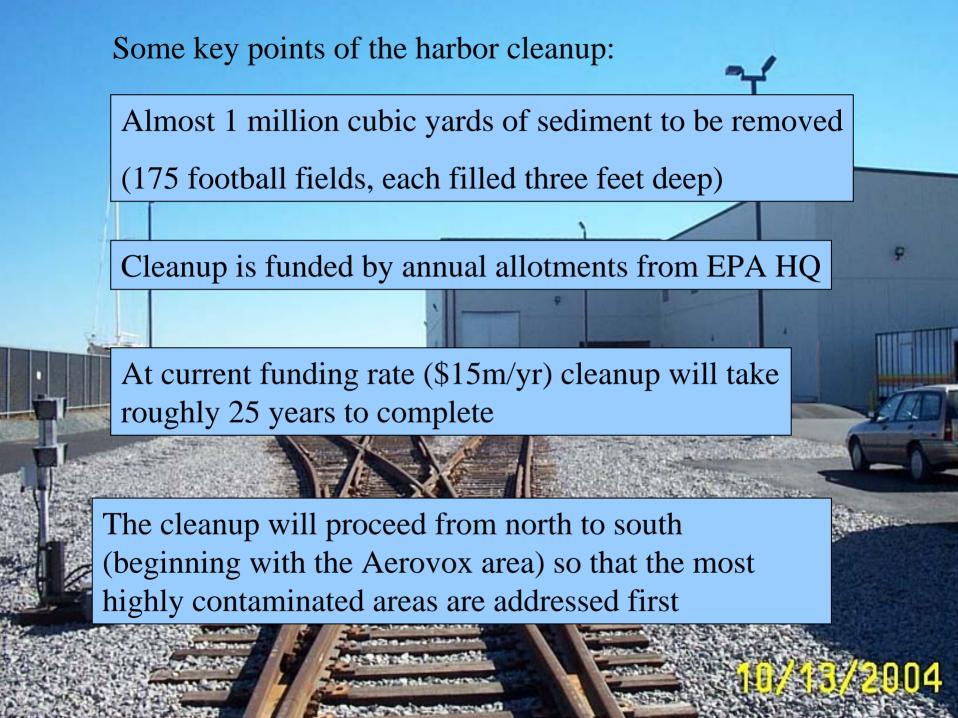




Full scale dredging started in 2004









The city is constructing a Confined Aquatic Disposal (CAD) cell to hold sediment dredged from harbor channels.

A CAD cell is a deep underwater pit that is dug and filled with dredged sediment, and then covered with a final layer

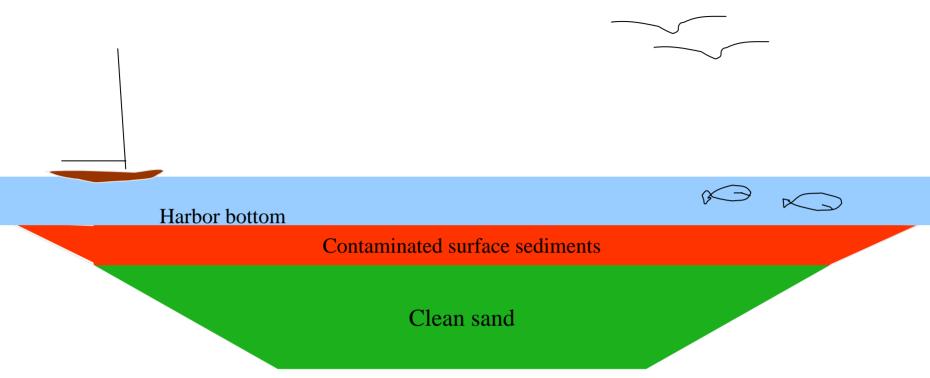
New CAD cell

of clean sand.

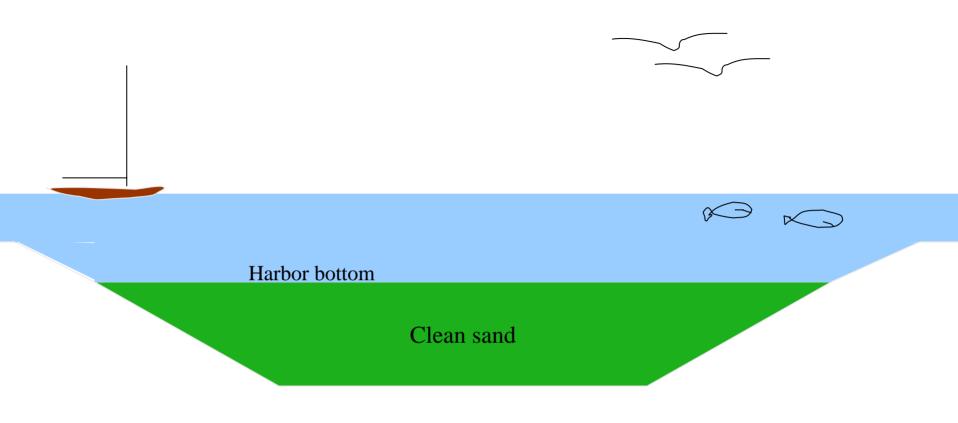
The digging will go deep enough to reach deep, clean sand that has never been contaminated by human activities.

Hurricane barrier

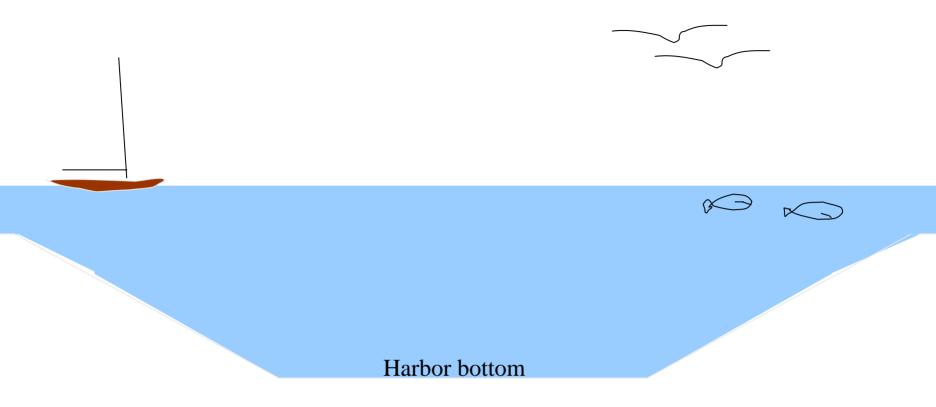
Next: a series of slides explaining what a CAD is and how it is constructed...



As is: New Bedford Harbor



Step 1: the contaminated surface sediments are removed



Step 2: the underlying clean sand is removed.

Contaminated sediments from

Step 3: the CAD is filled with contaminated sediments from <u>navigational</u> dredging.

navigational dredging

Clean sand cap Contaminated sediments from navigational dredging

Step 4: clean sand is placed as a final cap.

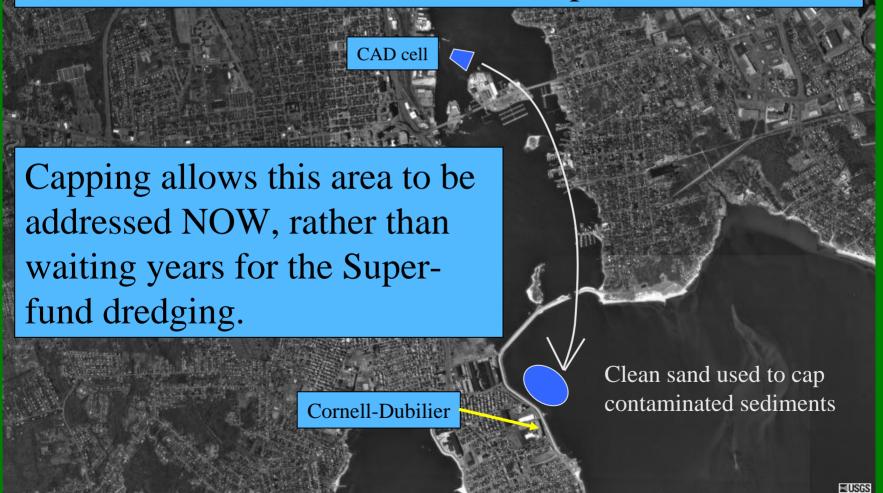
So...a flip flop::

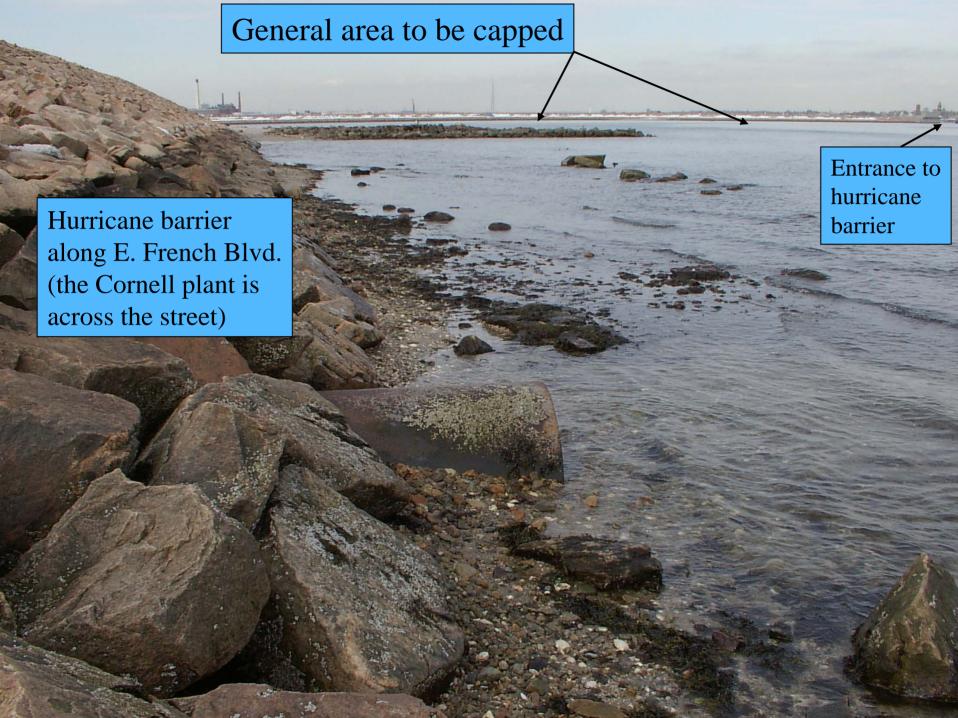


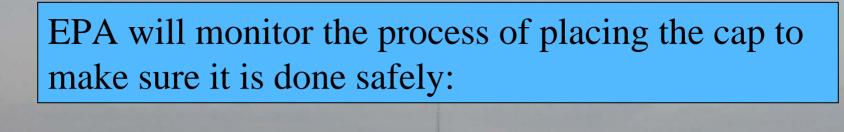




We will use the clean sand removed from the CAD cell to accelerate the remediation of PCB-contaminated sediments near the Cornell-Dubilier plant:







1. Daily surveys of water depth to monitor cap thickness

2. Daily surveys of turbidity and water quality

3. Chemical analysis of water samples to see if PCBs are being released

EPA will also monitor the cap annually after its in place:



2. Chemical: is the surface of the cap free of PCBs?

3. Biological: has a healthy mix of marine plants and animals recolonized the capped area? (see next slide)

